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TITLE: COMMUNICATION SYSTEM BETWEEN  
PROCESSES  
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ABSTRACT:

PURPOSE: To receive a packet of high urgency as quickly as possible without increasing the overhead of a computer, by providing a message transmission instruction processing means to take out a packet having prescribed attributes.

CONSTITUTION: When a process issues a transmission macro instruction, a message transmission processing routine is started in accordance with it. That is, the link of a packet entry-column 5 of a control block 1-n which correspond to the process in 1:1 is traced; and if a packet whose priority is higher than a certain designated priority is found, this packet is transferred to the process. When a packet 3-3 having priority information "1" arrives following packets 3-1 and 3-2, the packet 3-3 is inserted in the beginning of a queue, and this packet is taken out from the queue and is transferred to the process when the process terminated the transmission. Thus, the message transmission processing means is provided to receive an urgent packet without increasing the overhead of the computer.

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